Approved For Release 2004/02/11 : CIA-RDP78B05703A000200020035-4

NPTC/TSSG/RED-063/70

1 6 MAR 1970

MEMORANDUM FOR: Director, National Photographic Interpretation Center				
SUBJECT : Proposed Contract with the	25X1			
1. This memorandum requests approval for the commitment of funds for the renewal of a contract. The specific request is contained in paragraph 7.				
2. Modern reconnaissance systems are highly sophisticated, providing extremely complex imagery with regard to both geometry and structure. As a result, the optical devices required to extract information from this imagery have undergone a corresponding increase in sophistication. As a consequence, highly specialized expert assistance is needed to help the Research and Engineering Division evaluate proposals, evaluate breadboards,				
check computer calculated lens designs and systems design specifications. In the past, RED has had				
Scanner. has now become unavailable to us and will be replaced in this advisory capacity by an expert in lens design and optical systems evaluation. The same type of expertise, but in the area of physical optics and coherent lens systems, will be supplied by				
3. a. The proposed R&D effort would provide scientific assistance in four main areas:				
(1) Continuation—along with some expansion—of the type of advisory consultation provided by would be the primary contributor and would review lens designs submitted by contractors, evaluate breadboard experiments and prototypes, provide advice on optical testing and procedures.	25X1			
(2) Technical backup in the area of physical optics—this area would primarily be handled by Support would be provided, primarily to the Advanced Technology Branch, on laser applications, holography, optical system diagnosis, and proposal evaluations.	25X1			

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25X1	(3) There are certain types of optical experimentation, checking out of computer lens designs, ray tracing, and spot diagrams which can be carried out for RED by a graduate assistant under the direction of Six man-months, along with some computer time necessary to carry out this function, have been budgeted for under the contract.	25X				
	(4) Lectures and seminars on computer methods in lens design, optical testing procedures, writing of specifications, and Fourier optics will be conducted at NPIC.					
25X1	b. As in the past, these services would be available to all those in NPTC working in this area, i.e., RED, ESD, and APSD. The technical back-up and the consultation would be acquired on an "as required" basis to assist with specific problems on contracts and/or determining the feasibility of development objectives. The lectures and seminars would be given at and scheduled and tailored to meet specific requirements					
25X1 25X1	of NPIC technical personnelphototechnologists, physicists, and photo- chemists, etc. For example, the Lens Design and Evaluation courses given by					
25X1	scope evaluation, interferometer applications, and techniques for determining	25X				
25X1	review of a microstereoscope being designed by analyzed and recommended corrective action for the astigmatism problem encountered with the Dual Viewing Microstereoscope; consulted on optical coating problems, and participated in the Diagram	25X 25X 25X				
	d. Written reports will be submitted for each task except for the lectures and seminars. In the latter case text material will be provided by the University.					

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25X1	was selected as the contractor because of their previous relationship in prior contracts of this type which demonstrated their ability to work with and evaluate our equipment contractors, while maintaining a neutral, professional position and because of the availability of				
25X1	ability of I				
25X1 25X1	a. now retired as Director of Optics, 25 is renowned for his abilities in lens and optical system design. For the past twenty years he has taught a course in lens and optical system				
25X1	design at the				
25X1	b. was selected for this effort because of his extensive theoretical knowledge in physical optics and his ability to reduce theory to practice in terms understood by workers in the field. As Director,				
25X1	he is in the best position to supervise the other contributors to the contract.				
	c. The estimated cost is within the funds programmed in the FY-70 R&D budget.	25X1			
:	5. On the basis of past performance and the expanded scope of this proposal, it is anticipated that follow-on action will result in the form of a continuation of the work proposed.				
25X1	6. The sterility code is appropriate and the project officer will assure that no classified work is conducted at the University.				
25X1 25X1	7. It is requested that the negotiation of a contract with the to conduct the program described at a cost not to exceed be approved.				
1 1 1 1 1		25X1			
	Chief, Technical Services & Support Group, NPIC				
6 6 7	Attachments:				

- Proposal.
 Form 2420

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25X1

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APPROVED:	2 0 MA	R 1970
ARTHUR C. LUNDAHL	Date	
Director	·	•
National Photographic Interpretation Center		
Distribution: Original - NPIC/TSSG/SC&PS (After approval)		
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